

BUILDING INSPECTION CHECKLIST

Residential



3rd Party Support Provider:

Provider Number:

Permit Number:

Project Name:

Project Address:

Building Type:

Inspection Date:

Review Date:

Updated:

Permit Applicant:

Phone: Email:

Building Inspector:

Phone: Email:

This is a dynamic document that creates a custom energy code checklist for a project scope. This checklist can also be used to create a set of example correction comments that may be used or modified by the building inspector. If your municipality has adopted a more efficient code than New York Stretch that code will not be reflected in this checklist. The following checklist is a new tool created by NYSEKDA to support Building Officials and Third-party Support providers in Plan Review and Inspection. As you use the documents you are encouraged to provide feedback so NYSEKDA can continue to refine the document.

Would you like to use the sample correction comments feature?

YES

The dynamic version of this checklist is available on <https://www.nyserda.ny.gov/All%20Programs/Programs/Energy%20Code%20Training>

Compliance Scope (Check all that apply)				
<input type="checkbox"/> Envelope	<input type="checkbox"/> HVAC	<input type="checkbox"/> Service Water Heating	<input type="checkbox"/> Lighting & Electrical	

General	Applicable To This Project?	Plan Sheet Location?	Addressed In The Field?	
			Yes	No
Confirm the following items during the inspection. Any items not addressed in the field should be provided a correction comment.				
G1. Which residential compliance path is the project pursuing?	R401.2			
G2. Is the project pursuing compliance with NYStretch Code 2020?	NYStretch Energy Code 2020			
G3. If the building complied via the performance path, has the compliance report been submitted with the following: building address/site identification, statement of compliance with R405.3, a certificate indicating that the building passes the performance matrix & showing energy saving features, energy analysis report, the name of the individual performing the analysis and report generation, name and version of the compliance tool?	R405.4.2.2			
G4. Is there a physical permanent certificate completed and posted at a compliant or approved location inside the building, disclosing building component energy efficiency metric values?	R401.3			

Envelope	Applicable To This Project?	Plan Sheet Location	Addressed In The Field?	
			Yes	No
Any items applicable to the project not addressed in the field should be provided a correction comment.				
E1. Are insulating materials installed such that the manufacturer's R-value mark is readily observable, or provided with certifications of R-values?	R303.1.2			

E2. Do footing and foundation insulation R-value, location, thickness, depth of burial match construction documents and meet code requirements? For ERI compliance, does the R-value meet or exceed 2010 ECCCNY Table 402.1.1 minimum criteria?	<i>Construction Documents,</i> R106.2 , R402.1.2				
E3. Does insulation applied to the exterior of basement walls, crawl space walls and the perimeter of slab-on-grade floors have a rigid, opaque and weather-resistant protective covering? Does the protective covering cover the exposed exterior insulation and extend not less than 6 inches below grade?	R303.2.1				
E4. For roof, wall (below and above grade), and floor (non-foundation) assemblies: do type of insulation, R-value, and location of insulation match construction documents and meet code requirements in Table R402.1.2? For ERI compliance, do the R- values meet or exceed 2010 ECCCNY Table 402.1.1 or U-factor alternative 402.1.3 minimum criteria? If applicable, does the insulation also meet the specific requirements in 402.2?	<i>Construction Documents,</i> R402.1.2 , R402.2				
E5. Do fenestration U-factor and SHGC match construction documents and meet code requirements in Table R402.1.2 and 402.3? For ERI compliance, do the R- values meet or exceed 2010 ECCCNY Table 402.1.1 or U-factor alternative 402.1.3?	<i>Construction Documents,</i> R402.1.2 , R402.3 , R402.5				
E6. Is air barrier construction continuous across the joints and assemblies, with joints and seams sealed? Are penetrations of the air barrier caulked, gasketed or otherwise sealed?	R402.4.1 , Table R402.4.1.1				
E7. Is air barrier compliance inspection and air leakage testing implemented (<3 ACH at 50 Pa), and reported?	R402.4.1.2				
E8. Does the air leakage of fenestration meet the requirements (labeling)?	R402.4.3				
E9. If applicable, are recessed luminaires installed in the building thermal envelope: sealed, IC-rated, and labeled as having an air leakage rate of not more than 2.0 cfm?	R402.4.5				
E10. If applicable, are room containing fuel-burning appliances sealed and insulated, combustion air ducts insulated, and compliant with other additional requirements per R402.4.4?	R402.4.4				
E11. Are tenant separation walls between dwelling units in two-family dwellings and multiple single-family dwellings (townhouses) insulated to no less than R-10 and the walls air sealed?	R402.4 , R402.4.6				
E12. NYStretch only: did an approved agency inspect all building thermal envelope components and verify compliance?	R402.4.1.1				
HVAC		Applicable To This Project?	Plan Sheet Location?	Addressed In The Field? Yes No	
Any items applicable to the project not addressed in the field should be provided a correction comment.					



H1. Is ventilation provided in accordance with one of the following or other approved means of ventilation: Residential Code of New York State, Mechanical Code of New York State or New York City Construction?	R403.6				
H2. Do outdoor air intakes and exhausts have automatic or gravity dampers that close when the ventilation system is not operating?	R403.6				
H3. Do fans providing whole-house mechanical ventilation meet the efficacy requirements?	R403.1 , Table R403.6.1				
H4. Do heating and cooling capacities of HVAC equipment look to be reasonably sized (in accordance with ACCA Manuals S and J), and matches construction drawings and specifications?	R403.7				
H5. Do HVAC equipment efficiencies meet the required minimum efficiencies?	R403.7				
H6. If applicable, if there are HVAC systems serving multiple dwelling units, do they comply with ECCCNY - Commercial Provisions?	C403-C404				
H7. Does each separate heating and cooling system have not less than one setback-capable programmable thermostat?	R403.1.1				
H8. If the building has heat pumps with supplementary electric resistance heat, are there controls to prevent electric resistance operation when the heat pump can provide the heating load, except for defrost?	R403.1.2				
H9. If applicable, do hot water boilers that supply heat through one- or two- pipe heating have an outdoor setback control that decreases the boiler water temperature based on the outdoor temperature?	R403.2				
H10. Are supply and return ducts in attics and other portions of the building insulated in accordance with R403.3.1 (prescriptive requirement), or insulated to no less than R-6 (performance and ERI requirement)? Exception: not required if inside the building thermal envelope.	R403.3.1				
H11. Are ducts, air handlers, and filter boxes sealed?	R403.3.2				
H12. Have ducts been pressure tested via one of the following methods: rough-in test or postconstruction test? Has the written report of the results been provided, and the total leakage is less than or equal to 4 cub.ft. per minute per 100 sq.ft. of conditioned floor area? (Note that while testing is mandatory, duct leakage rate compliance is prescriptive. All projects have to conduct a test, but only prescriptive projects have to achieve the above or lower leakage rate.)	R403.3.3 , R403.3.4				
H13. Are building framing cavities not used as ducts or plenums?	R403.3.5				

H14. If supply and return air ducts are partially or completely buried in ceiling insulation, do they comply with minimum duct and ceiling insulation requirements?	R403.3.6 , R403.3.6.1 (performance compliance)				
H15. If any ducts are located in conditioned space, do they meet the requirements of Section R403.3.7	R403.3.7				
H16. Are mechanical system pipes capable of carrying fluids greater than 105° F or less than 55° F insulated to R-3 or more? If applicable, is piping insulation exposed to weather protected from damage caused by sunlight, moisture, equipment maintenance and wind?	R403.4				

H17. If applicable, do snow- and ice-melting systems include automatic controls configured to shut off the system when the pavement temperature is above 50° F and precipitation is not falling, and control that can shut off when the outdoor temperature is above 40° F?	R403.9				
H18. NYStretch only: is duct system sizing in accordance with ACCA Manual D?	R403.3.8				
H.19 NYStretch only: If applicable, in new buildings, is every dwelling unitserved by a heat recovery ventilator (HRV) or energy recovery ventilator (ERV)? (Exception for climate zone 4: a balanced ventilation system meeting section M1507.3 of 2015 IRC is compliant).	R403.6.2				
H.20 NYStretch only: If applicable, is the installed performance of themechanical ventilation system tested and verified by anapproved agency in accordance with ANSI/ACCA 9QJvp-2016?	R403.6.3				

Service Water Heating Systems	Applicable To This Project?	Plan Sheet Location?	Addressed In The Field? Yes No	
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Any items applicable to the project not addressed in the field should be provided a correction comment.

WH1. Are heated water circulation and temperature maintenance systems compliant? Are automatic controls, temperature sensors and pumps accessible? Are manual controls readily accessible?	R403.5.1				
WH2. If applicable, are demand recirculation water system controls compliant?	R403.5.2				
WH3. Is hot water pipe insulation of not less than R-3 in place for the conditions listed in R403.5.3?	R403.5.3				
WH4. If applicable, are drain water heat recovery units compliant with CS B55.2, and pressure loss maximum requirements? Has the unit been tested in accordance with CSA B55.1?	R403.5.4				
WH5. If applicable, are controls for pool and spa heaters and pumps installed to regulate their energy consumption? Is a vapor-retardant cover provided?	R403.10				
WH6. NYStretch only: if applicable, do drain water heat recovery units meet the minimum efficiency and maximum pressure loss requirements?	R403.5.4				

WH7. NYStretch only: is heated water supply piping compliant with one of the requirements under R403.5.5?	R403.5.5				
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Electrical and Lighting Systems	Applicable To This Project?	Plan Sheet Location?	Addressed In The Field?	
			Yes	No

Any items applicable to the project not addressed in the field should be provided a correction comment.

L1. Do at least 90% of the permanently installed lighting fixtures contain only high-efficacy lamps?	R404.1				
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L2. If applicable, are fuel gas lighting systems free of continuously burning pilot lights?	R404.1.1				
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L3. NYStretch only: are the installed lamps at a minimum of 65 lumens/watt, and luminaires at minimum of 45 lumens/watt?	R404.1				
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L4. NYStretch only: are solar-ready zone and electric vehicle charging requirements met?	R404.2				
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Passive House (NYStretch only)	Applicable To This Project?	Plan Sheet Location?	Addressed In The Field?	
			Yes	No

An optional compliance path for NYStretch, Allows either PHIUS or PHI approved software. ECCCNY prescriptive and mandatory requirements need to be met.

P1. NYStretch only: does the project meet the specific space heat demand and sensible only cooling demand requirements, and tested with a blower door exhibiting compliant infiltration rates?	Table 402.1.1 or 402.1.3 of 2010 ECCCNY				
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Reference	Example Building Inspector Correction Comments
G1	Must meet the requirements per ECCCNYS 2020 R401.2. Please correct inconsistencies and resubmit.
G2	Must meet the requirements per NYStretch 2020. Please correct inconsistencies and resubmit.
G3	Must meet the requirements per ECCCNYS 2020 R405.4.2.2. Please correct inconsistencies and resubmit.
G4	Must meet the requirements per ECCCNYS 2020 R401.3. Please correct inconsistencies and resubmit.
E1	Must meet the requirements per ECCCNYS 2020 R303.1.2. Please correct inconsistencies and resubmit.
E2	Must meet the requirements per Construction Documents and ECCCNYS 2020 R106.2, R402.1.2. Please correct inconsistencies and resubmit.
E3	Must meet the requirements per ECCCNYS 2020 R303.2.1. Please correct inconsistencies and resubmit.
E4	Must meet the requirements per Construction Documents and ECCCNYS 2020 R402.1.2. Please correct inconsistencies and resubmit.
E5	Must meet the requirements per Construction Documents and ECCCNYS 2020 R402.1.2, R402.5. Please correct inconsistencies and resubmit.
E6	Must meet the requirements per ECCCNYS 2020 R402.4.1, Table R402.4.1.1. Please correct inconsistencies and resubmit.
E7	Must meet the requirements per ECCCNYS 2020 R402.4.1.2. Please correct inconsistencies and resubmit.
E8	Must meet the requirements per ECCCNYS 2020 R402.4.3. Please correct inconsistencies and resubmit.
E9	Must meet the requirements per ECCCNYS 2020 R402.4.5. Please correct inconsistencies and resubmit.
E10	Must meet the requirements per ECCCNYS 2020 R402.4.4. Please correct inconsistencies and resubmit.
E11	Must meet the requirements per ECCCNYS 2020 R402.4, R402.4.6. Please correct inconsistencies and resubmit.
E12	Must meet the requirements per NYStretch 2020 R402.4.1.1. Please correct inconsistencies and resubmit.

H1	Must meet the requirements per ECCCNY 2020 R403.6. Please correct inconsistencies and resubmit.
H2	Must meet the requirements per ECCCNY 2020 R403.6. Please correct inconsistencies and resubmit.
H3	Must meet the requirements per ECCCNY 2020 R403.6.1, Table R403.6.1. Please correct inconsistencies and resubmit.
H4	Must meet the requirements per ECCCNY 2020 R403.7. Please correct inconsistencies and resubmit.
H5	Must meet the requirements per ECCCNY 2020 R403.7. Please correct inconsistencies and resubmit.
H6	Must meet the requirements per ECCCNY 2020 C403-C404. Please correct inconsistencies and resubmit.
H7	Must meet the requirements per ECCCNY 2020 R403.1.1. Please correct inconsistencies and resubmit.
H8	Must meet the requirements per ECCCNY 2020 R403.1.2. Please correct inconsistencies and resubmit.
H9	Must meet the requirements per ECCCNY 2020 R403.3.1. Please correct inconsistencies and resubmit.
H10	Must meet the requirements per ECCCNY 2020 R403.3.2. Please correct inconsistencies and resubmit.
H11	Must meet the requirements per ECCCNY 2020 R403.3.3. Please correct inconsistencies and resubmit.
H12	Must meet the requirements per ECCCNY 2020 R403.3.5. Please correct inconsistencies and resubmit.
H13	Must meet the requirements per ECCCNY 2020 R403.3.6, R403.3.6.1 (performance compliance). Please correct inconsistencies and resubmit.
H14	Must meet the requirements per ECCCNY 2020 R403.4. Please correct inconsistencies and resubmit.
H15	Must meet the requirements per ECCCNY 2020 R403.9. Please correct inconsistencies and resubmit.
H16	Must meet the requirements per NYStretch 2020 R403.3.8. Please correct inconsistencies and resubmit.

H17	Must meet the requirements per NYStretch 2020 R403.6.2. Please correct inconsistencies and resubmit.
H18	Must meet the requirements per NYStretch 2020 R403.6.3. Please correct inconsistencies and resubmit.
WH1	Must meet the requirements per ECCCNYS 2020 R403.5.1. Please correct inconsistencies and resubmit.
WH2	Must meet the requirements per ECCCNYS 2020 R403.5.2. Please correct inconsistencies and resubmit.
WH3	Must meet the requirements per ECCCNYS 2020 R403.5.3. Please correct inconsistencies and resubmit.
WH4	Must meet the requirements per ECCCNYS 2020 R403.5.4. Please correct inconsistencies and resubmit.
WH5	Must meet the requirements per ECCCNYS 2020 R403.10. Please correct inconsistencies and resubmit.
WH6	Must meet the requirements per NYStretch 2020 R403.5.4. Please correct inconsistencies and resubmit.
WH7	Must meet the requirements per NYStretch 2020 R403.5.5. Please correct inconsistencies and resubmit.
L1	Must meet the requirements per ECCCNYS 2020 R404.1. Please correct inconsistencies and resubmit.
L2	Must meet the requirements per ECCCNYS 2020 R404.1.1. Please correct inconsistencies and resubmit.
L3	Must meet the requirements per NYStretch 2020 R404.1. Please correct inconsistencies and resubmit.
L4	Must meet the requirements per NYStretch 2020 R404.2. Please correct inconsistencies and resubmit.
P1	Must meet the requirements per NYStretch 2020 Table 402.1.1 or 402.1.3 of 2010 ECCCNYS. Please correct inconsistencies and resubmit.

Declaration Statement

Based on the building inspections conducted under my direct supervision, it is my professional judgement that, to the best of my knowledge, and based on the information provided, the compliance or non-compliance of the checklist items are accurately documented above.

Name:

Signature:

Date:

